

FIG. 1

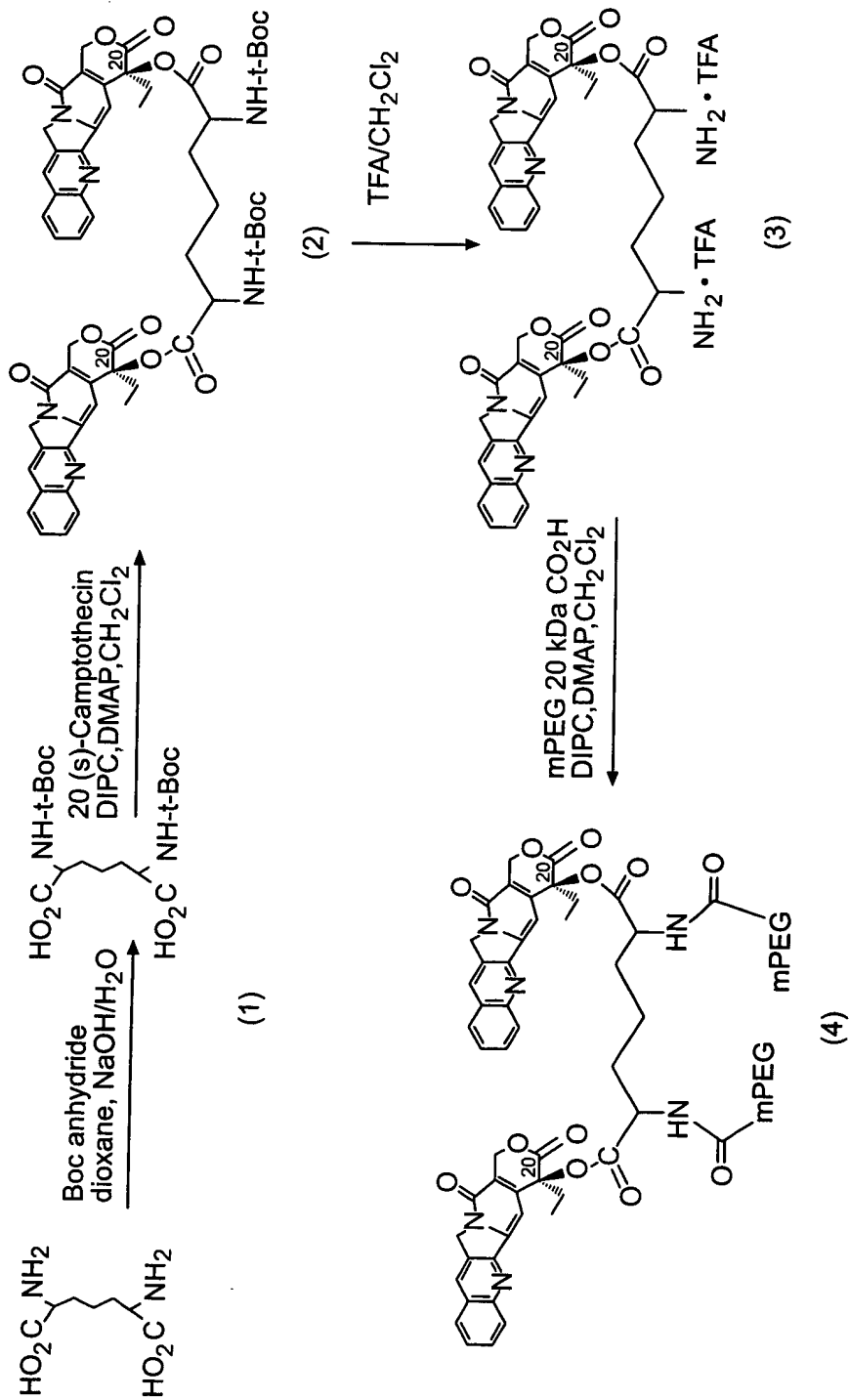


FIG. 2

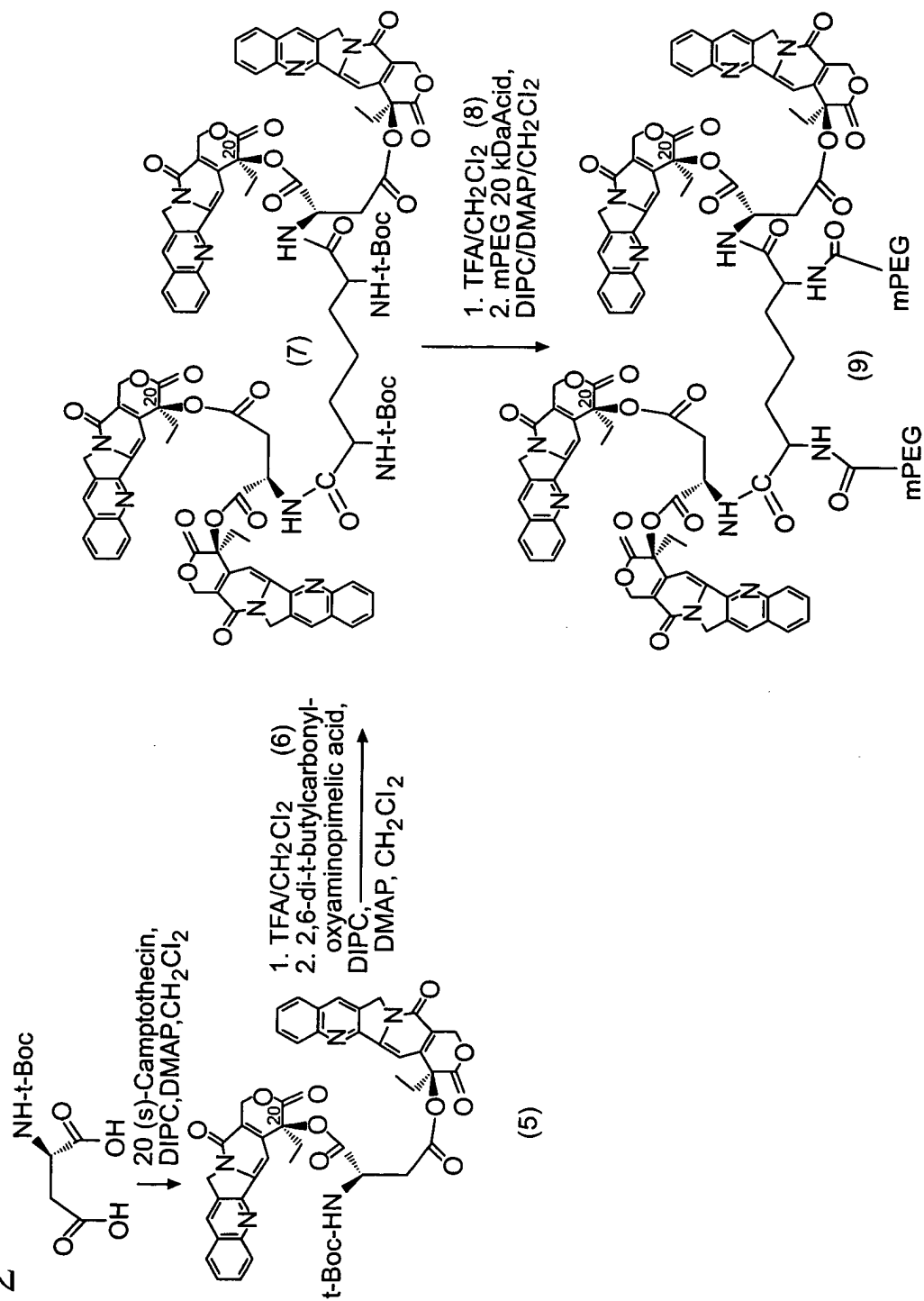


FIG. 3

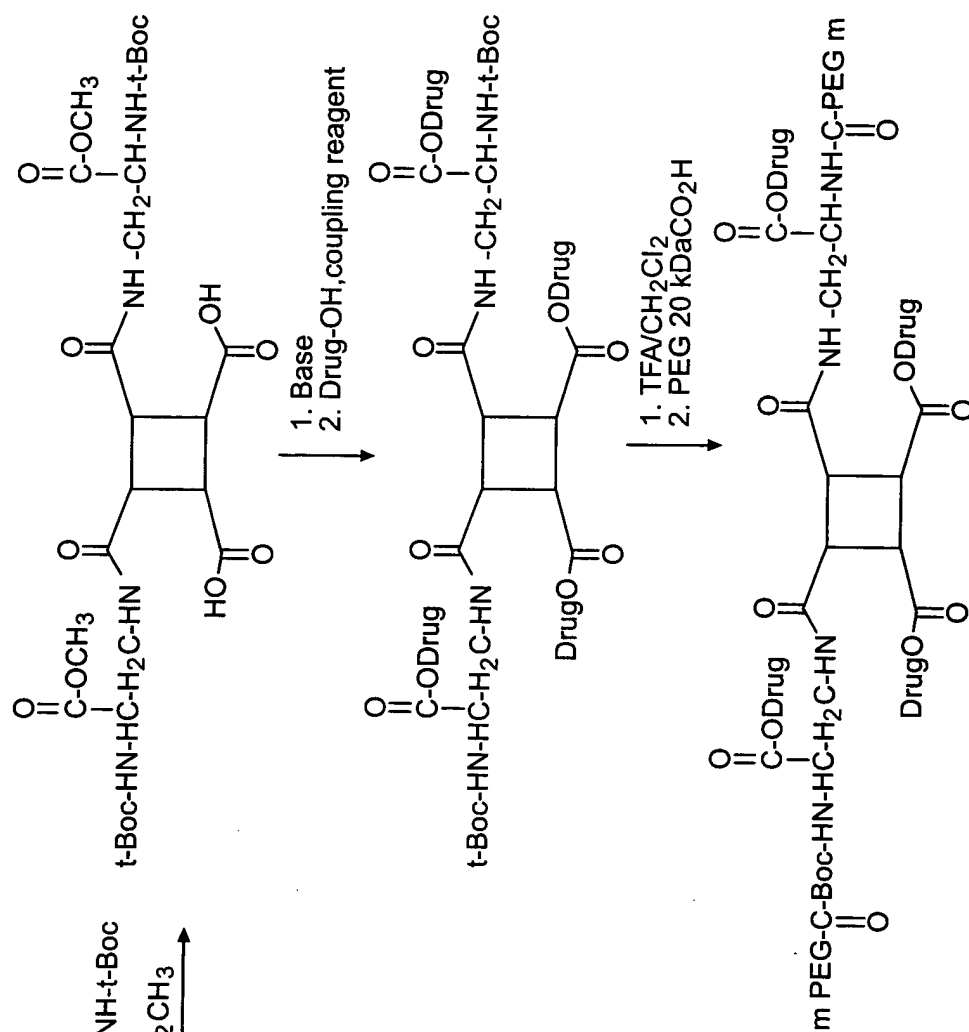
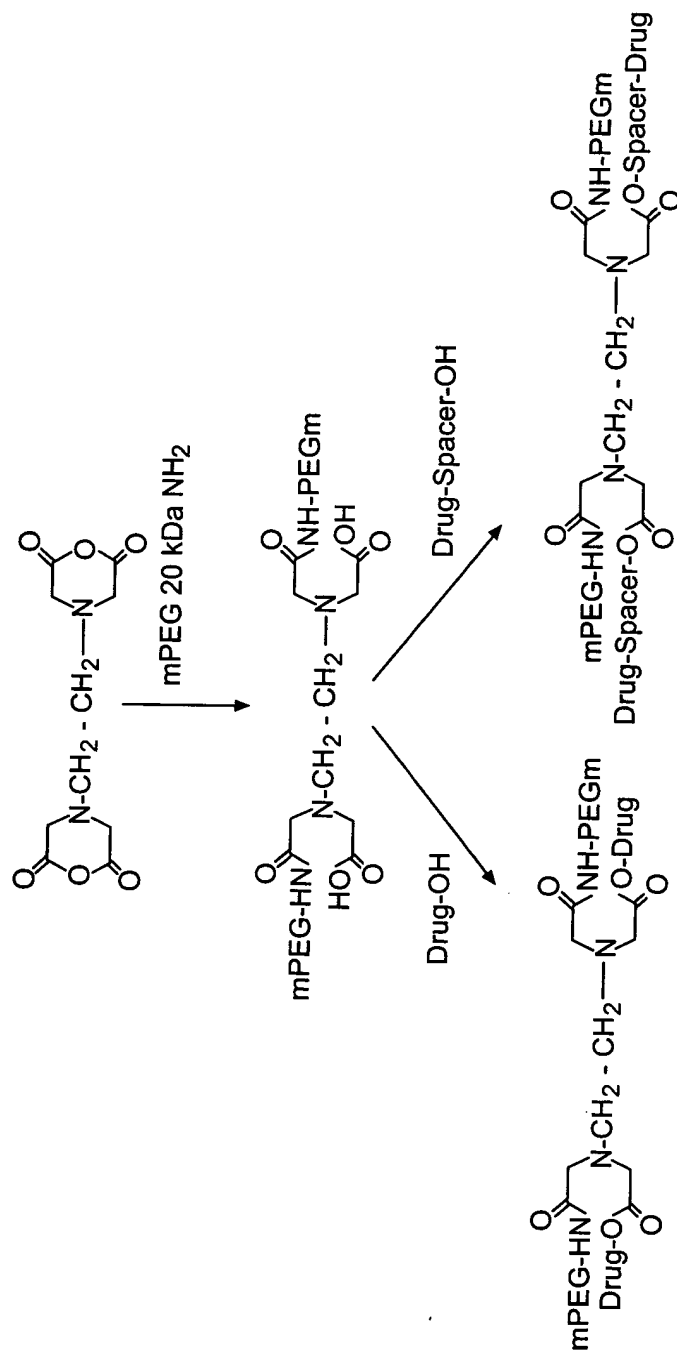
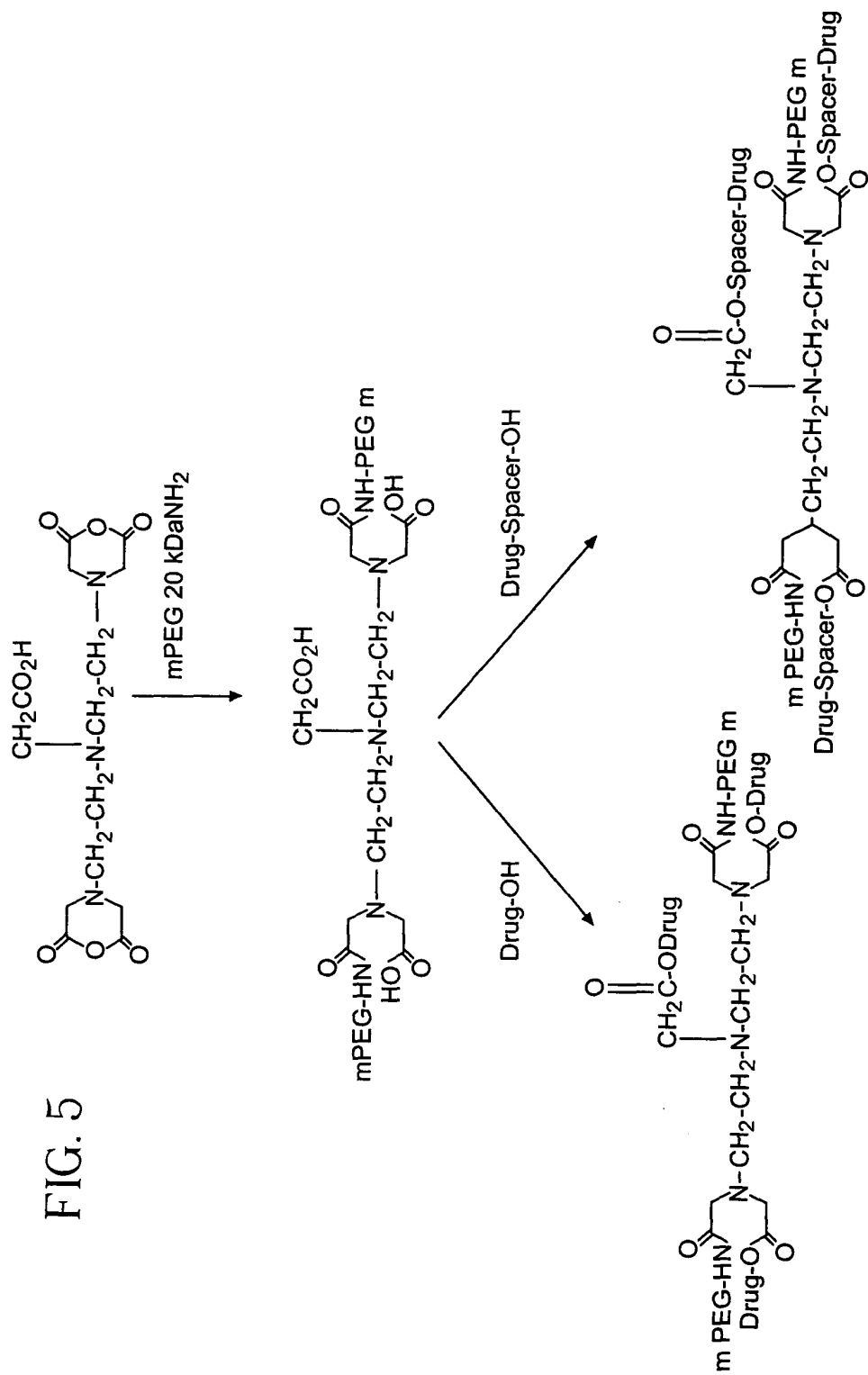


FIG. 4





**Fig. 6**

The reaction scheme illustrates the synthesis of a PEG-conjugated peptide-drug conjugate through a series of chemical reactions:

- Starting Material:** A resin-bound molecule with a benzylidene-protected amino acid side chain and a Boc-protected amine.
- Reaction 1:** Deprotection of the Boc group using  $\text{CH}_2\text{CO}_2\text{H}$  yields a resin-bound peptide intermediate.
- Reaction 2:** Coupling of the peptide intermediate with a drug molecule ( $\text{Drug-OH}$ ) using  $\text{Base}$  and  $\text{Drug-OH}$  yields a resin-bound peptide-drug conjugate.
- Reaction 3:** Coupling of the peptide-drug conjugate with a PEG chain ( $\text{m PEG-CO}_2\text{H}$ ) using  $\text{1. TFA/CH}_2\text{Cl}_2$  and  $\text{2. m PEG CO}_2\text{H}$  yields the final PEG-conjugated peptide-drug conjugate.

FIG. 7

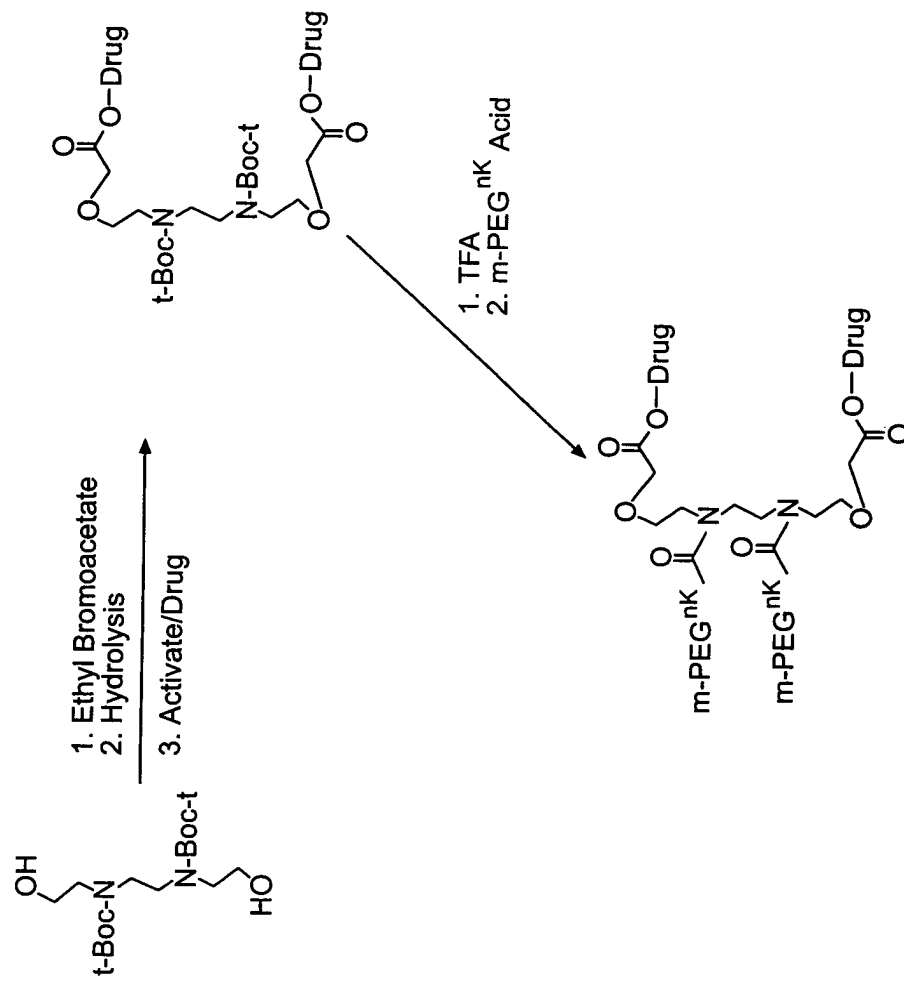






FIG. 9

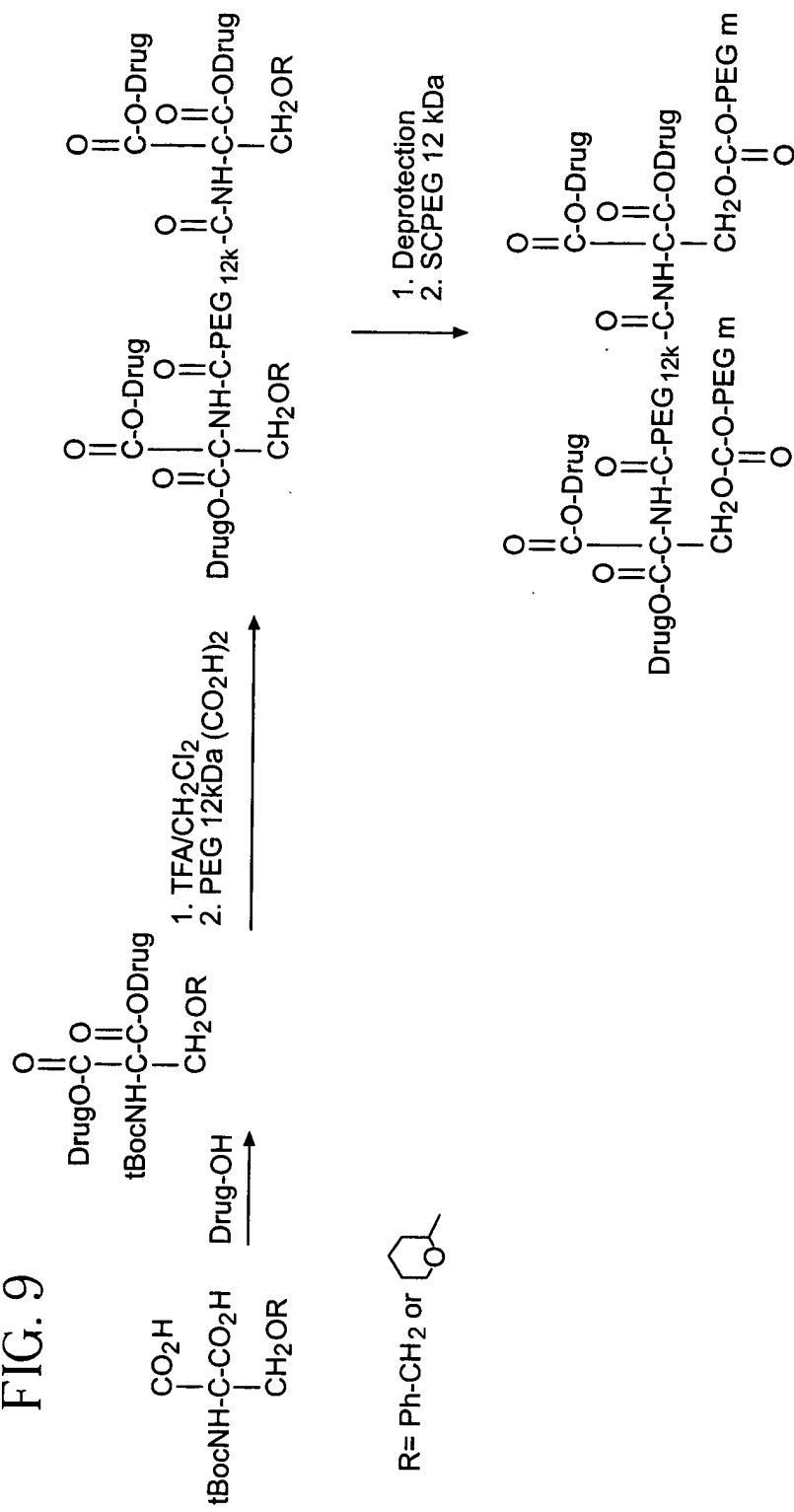


FIG. 10

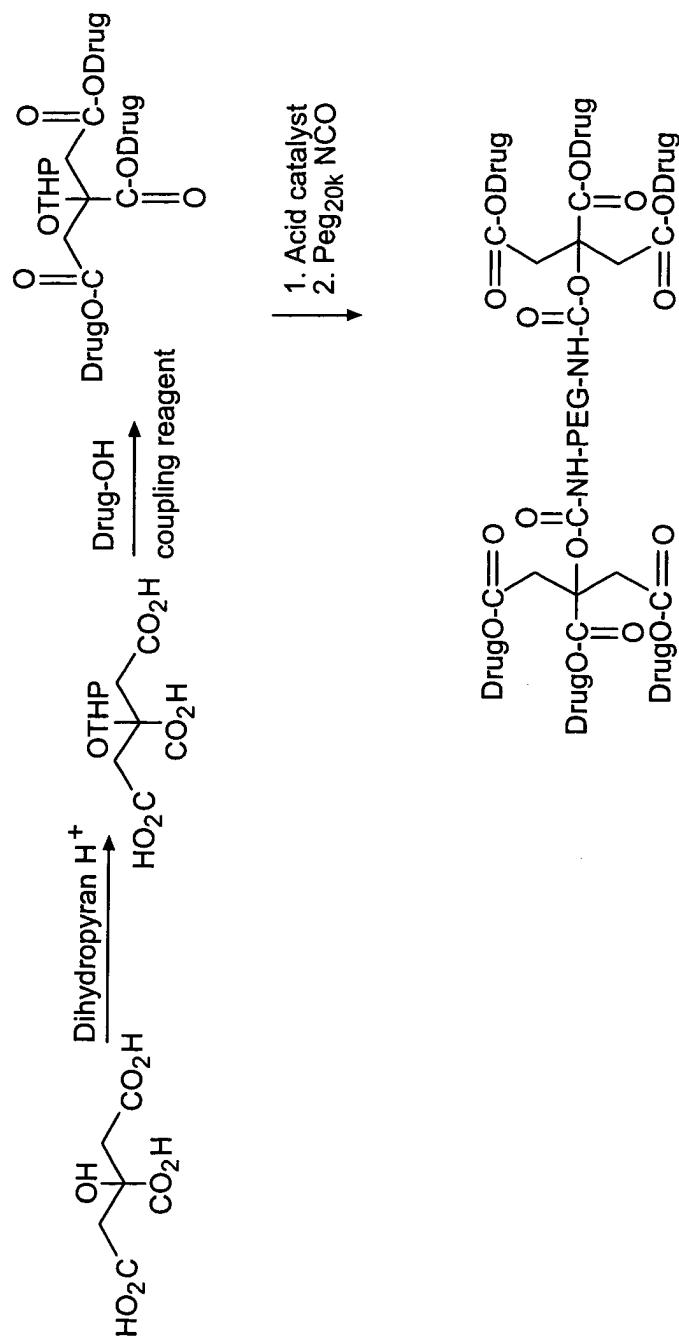
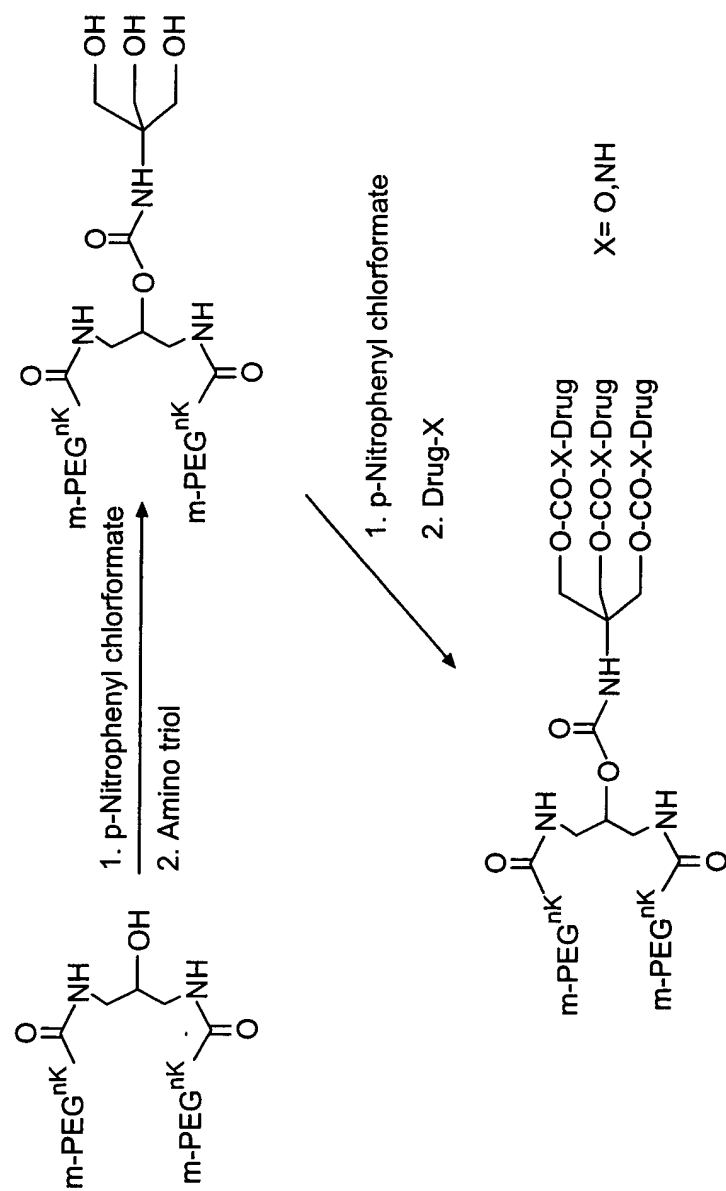
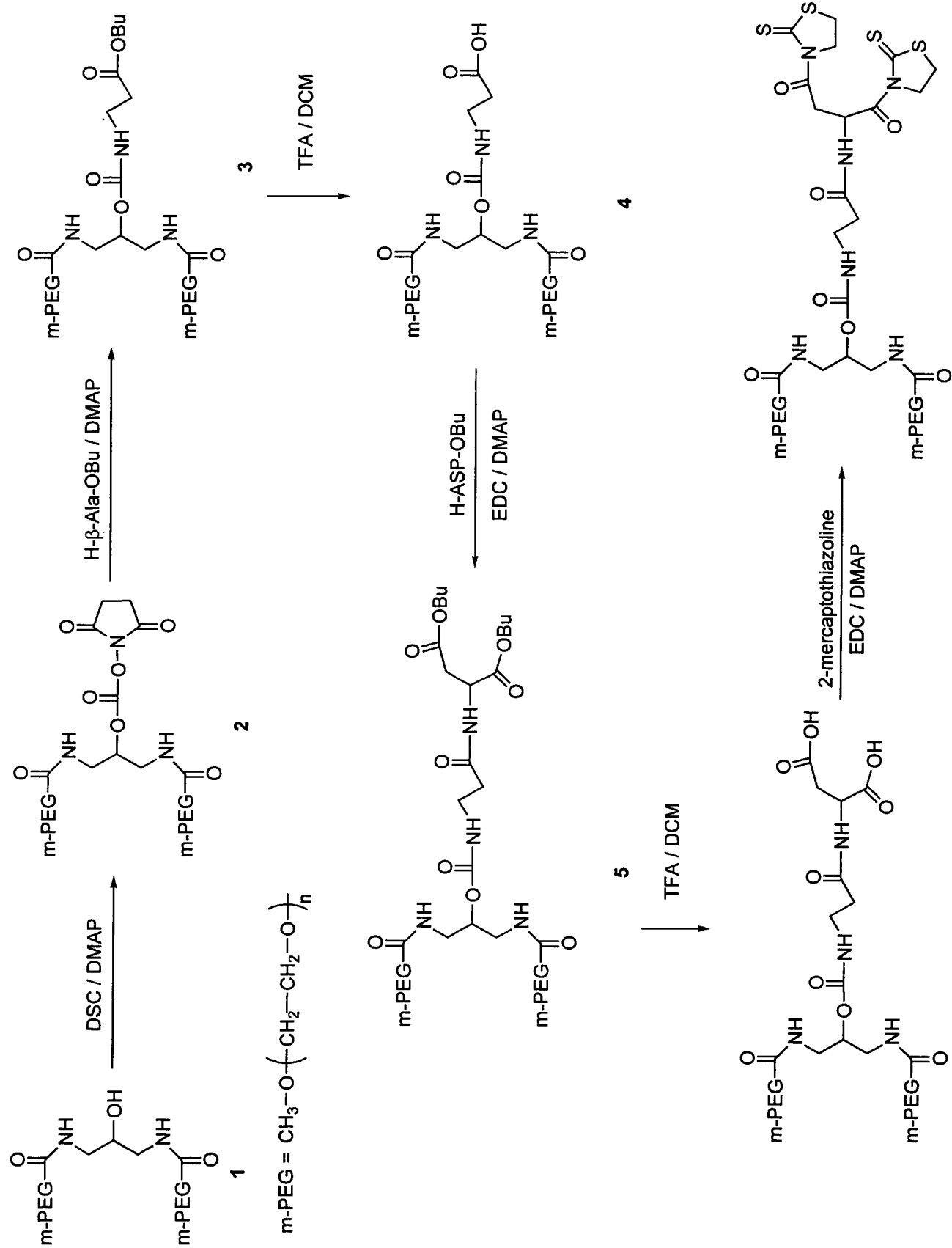


FIG. 11





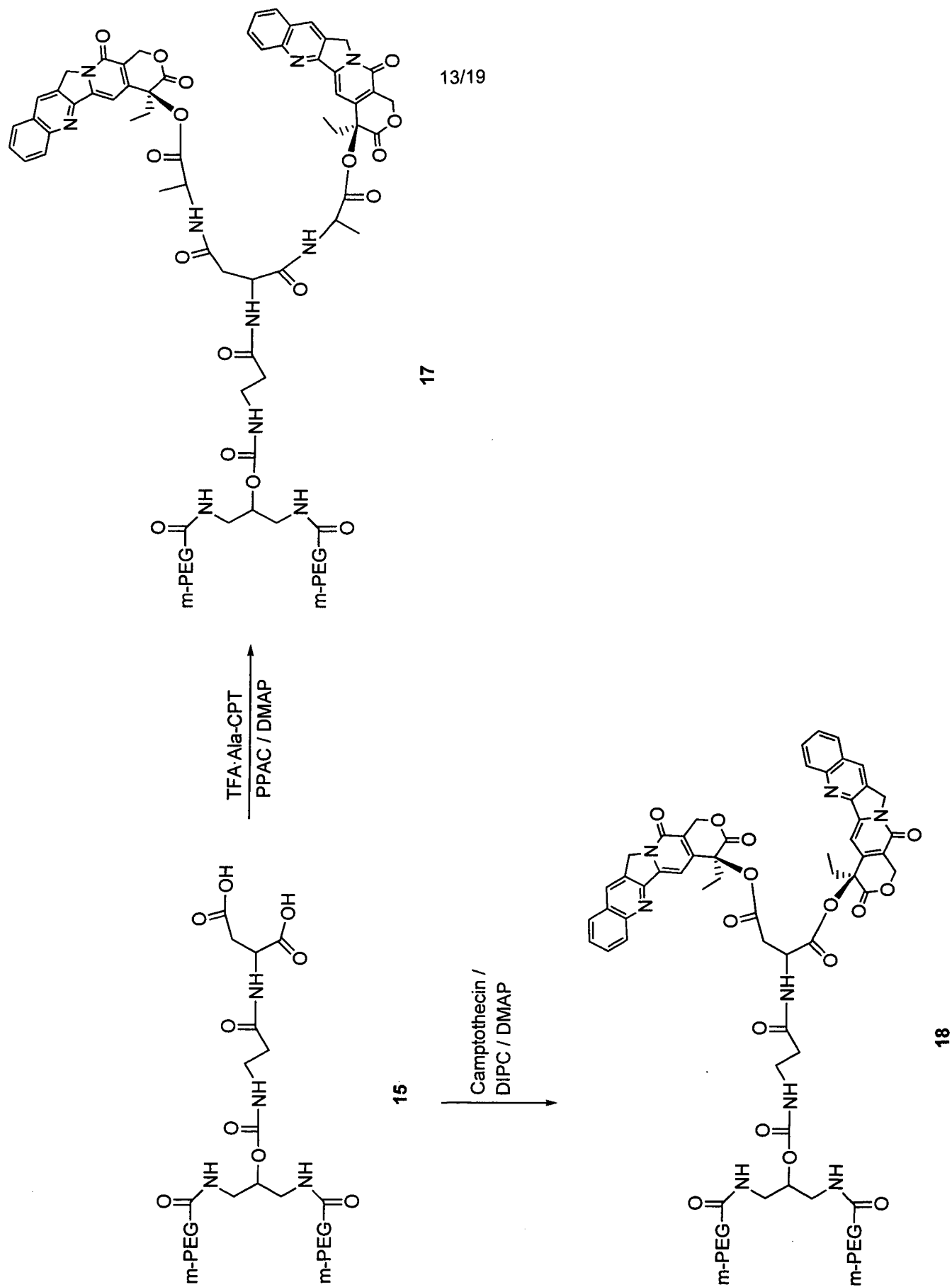


Figure 12c

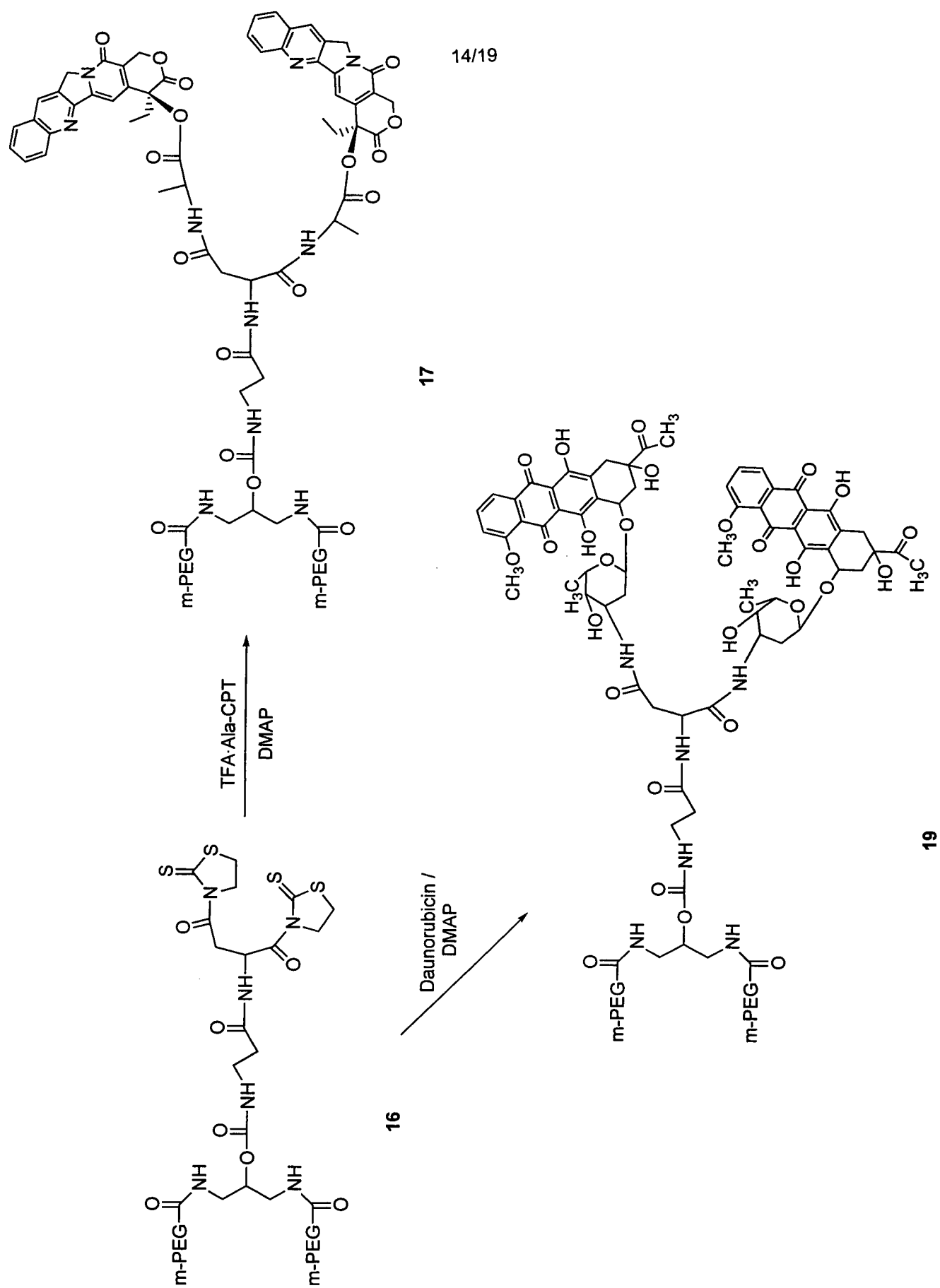


FIG. 13

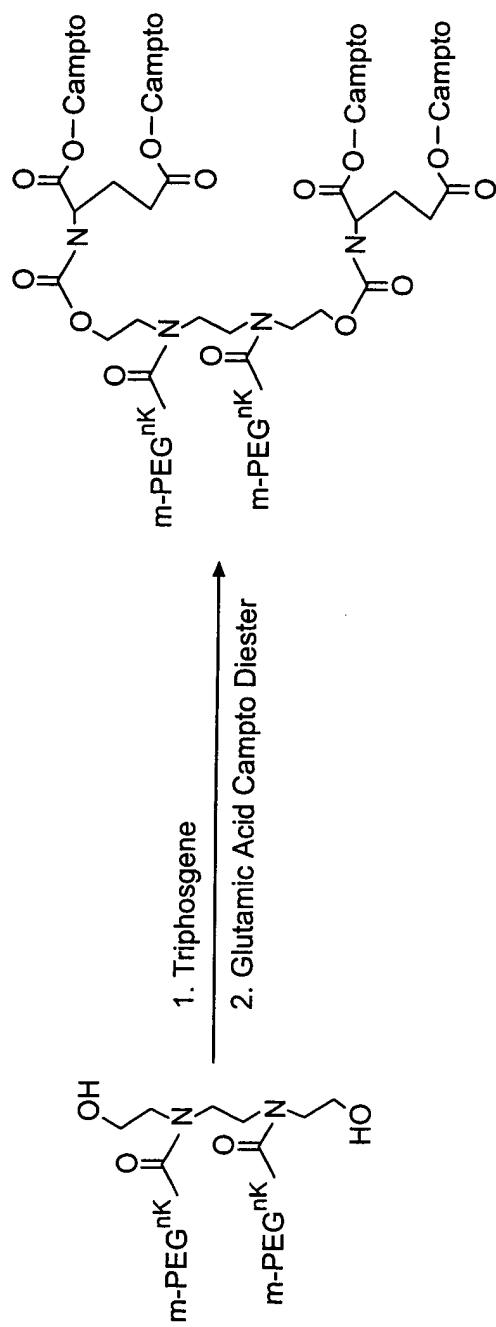
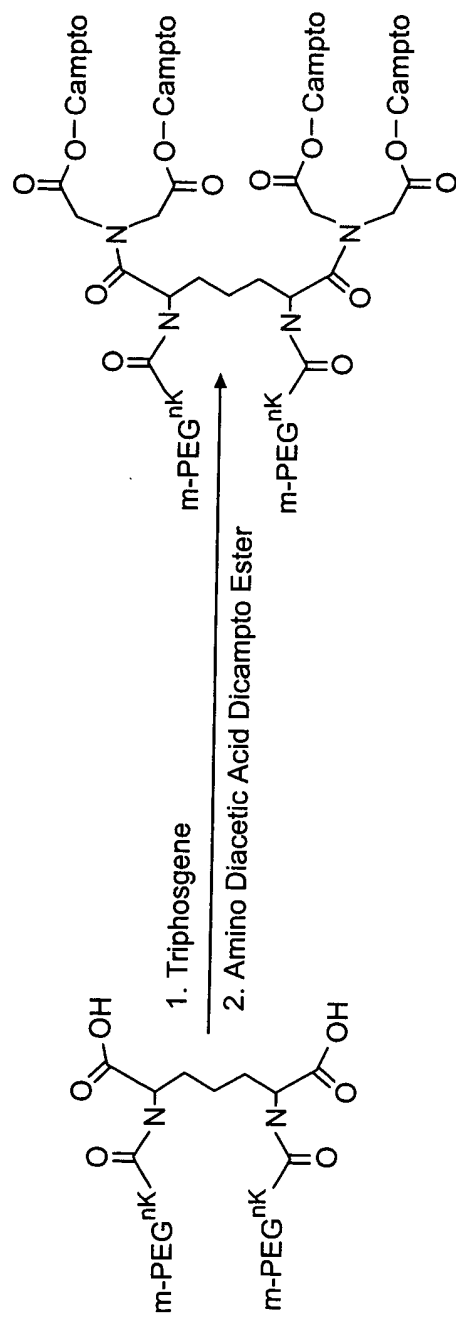


FIG. 14





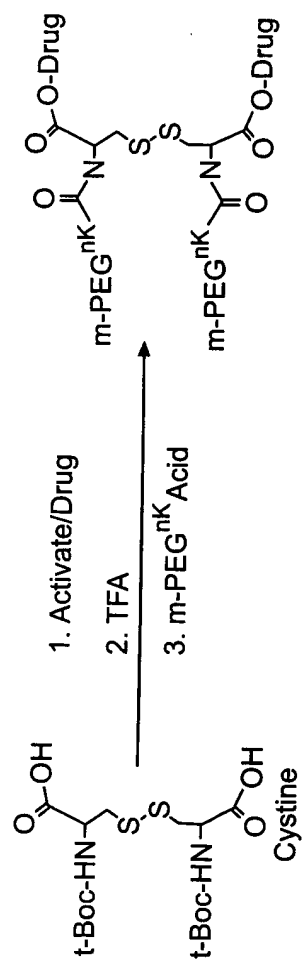
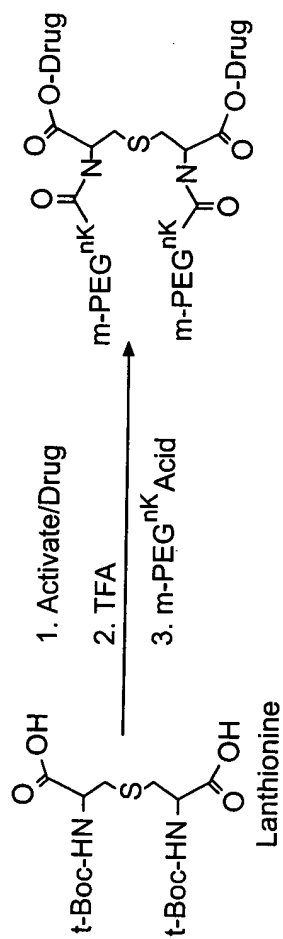
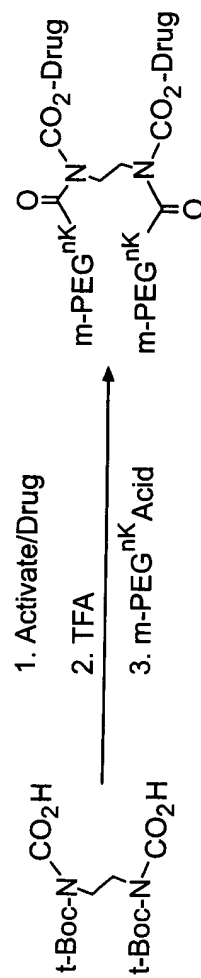


FIG. 16

